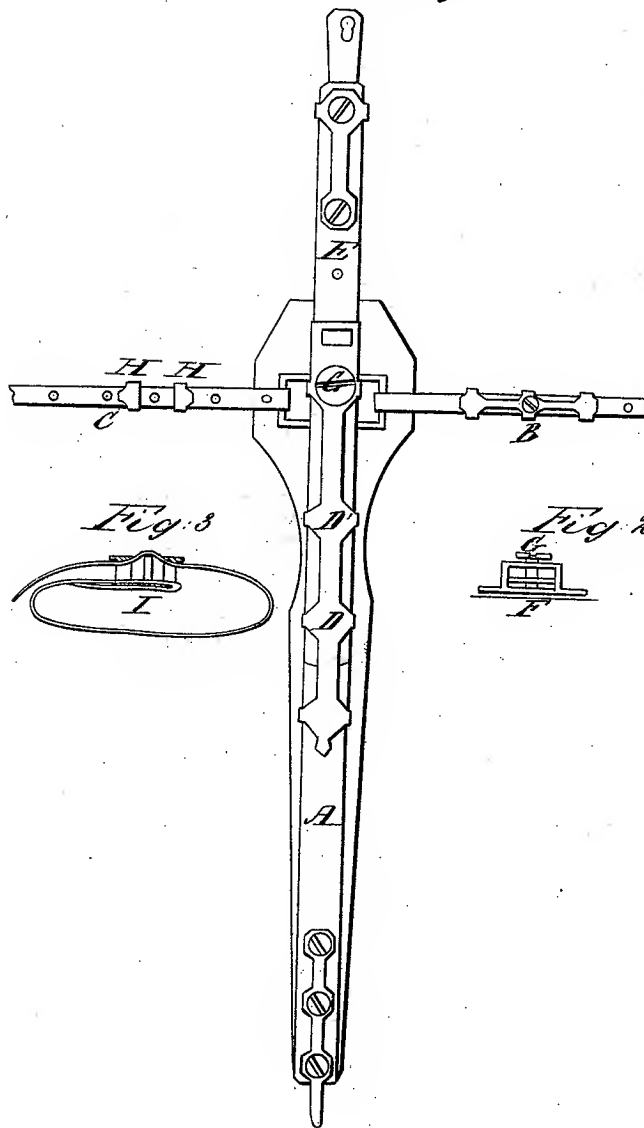
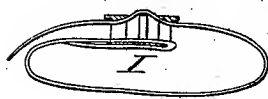


*W. Hayden,*  
*Harness Buckle,*  
*N<sup>o</sup> 111.* *Patented Jan. 21, 1837*

*Fig. 1*



*Fig. 3*



*Fig. 2*



# UNITED STATES PATENT OFFICE.

WARNER HAYDEN, OF NEW MILFORD, PENNSYLVANIA.

## FASTENINGS FOR HARNESS.

Specification of Letters Patent No. 111, dated January 21, 1837.

*To all whom it may concern:*

Be it known that I, WARNER HAYDEN, of New Milford, in the county of Susquehanna, in the State of Pennsylvania, have invented an improvement in the mode of fastening harness, which I effect by means of metallic clasps, screws, and pins, which I use as substitutes for the buckles usually employed for that purpose; and I do hereby declare that the following is a full and exact description thereof, reference being had to the drawing which accompanies and makes a part of this specification.

My improvement is not confined to any particular portion, or kind, of harness, but for the purpose of exemplifying it, I have, in Figure 1, represented a part of the trace and hame of a carriage, with the straps connecting it with the pad, and with the belly band. A is a part of the hame tug. B, the strap going to the pad, and C, that of the belly band. D, D, is one of the clasps, which receives the trace E, and confines it in its place in lieu of a buckle.

Fig. 2, F, is a vertical section through the clasp and hame tug, showing the manner in which the upper and lower straps of the hame tug embrace the lower side of the clasp, with the space to receive the trace E, and the screw G, by which it is to be held in its place. The trace is pierced with holes in the same way as when buckles are used, but it passes in under the upper plate of the clasp D; and the screw G, passes through the clasp and one of the holes in the trace, the lower end of the screw being tapped and screwing into the lower part of the clasp. Although I believe that one such screw will be found sufficiently strong for draft, a second may be passed through the plate D',

if preferred. The pad strap B, is represented with a clasp of the same construction, but smaller.

The strap C, of the belly band, shows a clasp of another construction which may be used in this and in other parts of the harness. H, H, is a clasp, the upper parts of which stand an inch, or more, apart, but are united into one by a bottom plate extending from one loop of the clasp to the other; from the middle of this plate, a pin rises, by which the strap is to be fastened. One end of the strap is stitched together with this bottom plate between it, as shown at I, which is a vertical section along, and through, the strap and clasp; the end to be fastened is then passed through the two loops of the clasp, the pin upon which enters one of the holes punched in the strap for that purpose. In the section I, this strap is shown as bent up, ready to enter the pin.

Having thus fully described the manner in which the metal clasps, screws, and pins, used by me as substitutes for harness buckles, are made and used, I do hereby declare that I claim as my invention—

The within described manner of making and using such fastenings for harness, wherever buckles have been heretofore employed for that purpose, without intending to confine myself to any particular pattern, or shape, in constructing them, but to vary them in any way I may think proper, while their construction and mode of operation remain substantially unchanged.

WARNER HAYDEN.

Witnesses:

THOS. P. JONES,  
W. THOMPSON.